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Mar 26, 1985

DERWENT-ACC-NO: 1985-092814  
DERWENT-WEEK: 198515  
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TITLE: Binder for refractory coating fabric - comprises colloidal silica,  
mono:aluminium phosphate, chloro:hydrate and alkyl tin halide catalyst

INVENTOR: GEORGE, S; GEORGE, T H

## PATENT-ASSIGNEE:

ASSIGNEE

CODE

PYRO TECHN CORP

PYRON

SUBTEX INC CORP

SUBTN

PRIORITY-DATA: 1984US-0585909 (March 2, 1984), 1985US-0688693 (January 4, 1985),  
1985US-0688709 (January 4, 1985), 1985US-0764874 (August 12, 1985), 1985US-0810861  
(December 18, 1985), 1986US-0851284 (April 10, 1986)

## PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
US 4507355 A	March 26, 1985		006	
AU 8539285 A	September 5, 1985		000	
DK 8500960 A	September 3, 1985		000	
EP 155550 A	September 25, 1985	E	000	
JP 60210562 A	October 23, 1985		000	
ZA 8501534 A	August 30, 1985		000	

DESIGNATED-STATES: BE DE FR GB IT LU NL SE

CITED-DOCUMENTS:US 4358500

## APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
US 4507355A	March 2, 1984	1984US-0585909	
EP 155550A	February 26, 1985	1985EP-0102094	

INT-CL (IPC): B32B 7/00; B32B 17/00; B32B 18/00; C03C 25/00; C04B 12/02; C04B 24/00;  
C04B 28/34; C04B 35/00; C04B 38/00 ; C04B 41/50; C09D 1/00; C09J 1/00; D06M 11/00; D06N  
3/00

ABSTRACTED-PUB-NO: US 4507355A

## BASIC-ABSTRACT:

Fabric is coated with refractory material using binder comprising colloidal silica,  
monoaluminium phosphate (MAP), aluminium chlorohydrate (ACH) and alkyl tin halide  
catalyst; coating is bonded to fabric surfaces and imparts flame abrasion and temp.  
resistance. Fabric can be natural or synthetic and is esp. glass, aramid, mineral wool  
or mixts. thereof. A pref. prod. comprises glass fibre and a refractory which fuses  
therewith at elevated temp. Pref. refractory is one or more of Al<sub>2</sub>O<sub>3</sub>, ZrO<sub>2</sub>, Ca  
silicate, SiO<sub>2</sub>, SiC, Al<sub>2</sub>O<sub>3</sub>/SiO<sub>2</sub> fibre, C fibre, ZrO<sub>2</sub> fibre and thermal C black.  
Refractory layer is pref. coated with silicone rubber.

ADVANTAGE - Use of catalyst is improvement on US4358500. Coating is more tightly bonded to fibre and requirement to fill interstices is avoided thereby reducing materials cost. Coating does not dust when flexed.

CHOSEN-DRAWING: Dwg.0/0

TITLE-TERMS: BIND REFRACTORY COATING FABRIC COMPRISE COLLOID SILICA MONO ALUMINIUM PHOSPHATE CHLORO HYDRATE ALKYL TIN HALIDE CATALYST

DERWENT-CLASS: A93 L02 P73

CPI-CODES: A06-A00E1; A12-W12D;

UNLINKED-DERWENT-REGISTRY-NUMBERS: 1521S; 1544S ; 1550S ; 1669S ; 1694S ; 1797S

POLYMER-MULTIPUNCH-CODES-AND-KEY-SERIALS:

Key Serials: 0009 0016 0231 1283 1306 3317 2482 2499 2524 2528 2600 2657 3252 3267 2819 3316

Multipunch Codes: 014 032 04- 05- 141 151 229 331 38- 431 466 472 477 481 483 54& 541 57& 597 598 600 664 678

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C1985-040235

Non-CPI Secondary Accession Numbers: N1985-069534